

AMENDMENTS TO THE CLAIMS

Claims 1-66 (canceled)

67. (currently amended) A formulation useful in retarding the growth of vegetation comprising an aqueous mixture containing a surfactant, glyphosate, primarily in the form of the potassium salt ~~or a salt or ester~~ thereof, and a dicarboxylic acid, the nature of said surfactant and the composition of said formulation being such that, upon application of the formulation to a plant, anisotropic aggregates comprising said surfactant are formed on the foliage of said plant.

68. (original) A formulation as set forth in claim 67 wherein the nature of said surfactant and the composition of said formulation are such that, upon application of the formulation to a plant, liquid crystals comprising said surfactant are formed in the foliage of said plant.

69. (previously amended) A formulation as set forth in claim 67 wherein the glyphosate concentration is from about 400 g a.e./L to about 600 g a.e./L.

70. (previously amended) A formulation of claim 67 wherein the formulation has a cloud point of at least about 50°C and a crystallization point of not higher than about 0°C.

71. (original) A formulation of claim 70 wherein the formulation has a cloud point of at least about 60°C and a crystallization point of not higher than about -10°C.

72. (currently amended) A formulation of claim 67 wherein the weight ratio of the surfactant to the dicarboxylic acid is from about 5:1 to about 50:1 ~~formulation comprises a salt of glyphosate selected from the group consisting of potassium glyphosate, monoammonium glyphosate, diammonium glyphosate, sodium glyphosate, monoethanolamine glyphosate, n-propylamine glyphosate, ethylamine glyphosate, ethylenediamine glyphosate, hexamethylenediamine glyphosate, trimethylsulfonium glyphosate and mixtures thereof.~~

73. (original) A formulation of claim 67 wherein the formulation has a density of at least about 1.210 grams/liter.

74. (original) A formulation of claim 67 wherein the formulation has a viscosity of less than about 1000 c.p. at 0°C at 45/s shear rate.

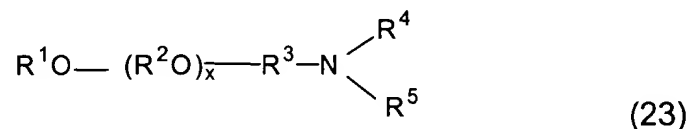
75. (original) A formulation of claim 74 wherein the formulation has a viscosity of less than about 250 c.p. at 0°C at 45/s shear rate.

76. (original) A formulation of claim 67 wherein the surfactant comprised by the formulation is not substantially antagonistic to the herbicidal activity of the glyphosate.

77-99 (canceled)

100. (withdrawn) A formulation of any one of claims 67, 92, 93, 152 or 162 wherein the surfactant is selected from the group consisting of:

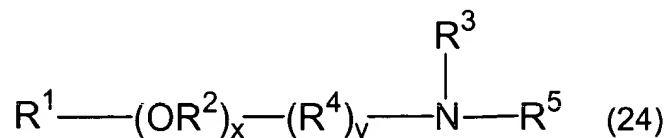
(a) monoalkoxylated amines having the formula:



wherein R¹ is hydrogen or hydrocarbyl or substituted hydrocarbyl having at least 7 carbon atoms; R² in each of the x (R²O) and y (R²O) groups is independently C₂-C₄ alkylene; R³ is a hydrocarbylene or substituted hydrocarbylene having from 2 to about 6 carbon atoms; R⁴ and R⁵ are each independently hydrogen, hydrocarbyl or substituted hydrocarbyl having from 1 to about 30 carbon atoms, -(R⁶)_n-(R²O)_yR⁷, or R⁴ and R⁵, together with the nitrogen atom to which they are attached, form a cyclic or heterocyclic ring; R⁶ is hydrocarbylene or substituted hydrocarbylene containing from 1 to about 6 carbon atoms, R⁷ is hydrogen or a linear or branched alkyl group having 1 to about 4 carbon atoms, n is 0 or 1, and x and y are independently an average number from 1 to about 60, provided, however, that when R² and R³ in each of the x (R²O) groups is ethylene, R¹ is other than unsubstituted alkyl or R⁴ is other than hydrogen or unsubstituted alkyl when R⁵ is hydrogen or unsubstituted alkyl, and when R² and R³ are

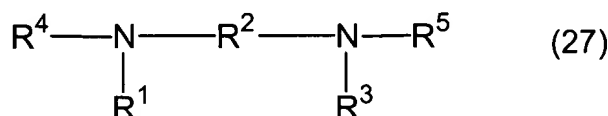
isopropylene and x is 1, R¹ is other than unsubstituted alkyl or R⁴ is other than -(R²O)_yR⁷;

(b) alkoxyated poly(hydroxyalkyl)amines having the formula:



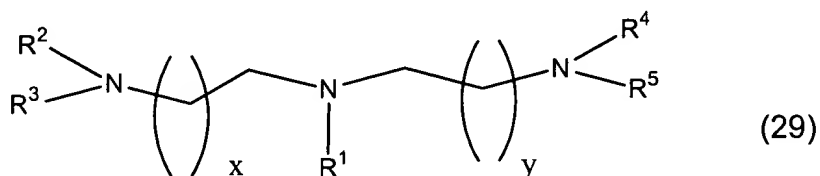
wherein R¹ and R³ are independently hydrogen, hydrocarbyl or substituted hydrocarbyl having from 1 to about 30 carbon atoms, R² in each of the x (R²O) groups is independently C₂-C₄ alkylene; R⁴ is hydrocarbylene or substituted hydrocarbylene having from 1 to about 30 carbon atoms, R⁵ is hydroxyalkyl, polyhydroxyalkyl, or poly(hydroxyalkyl)alkyl; x is an average number from 0 to about 30, and y is 0 or 1;

(c) di-poly(hydroxyalkyl)amines having the formula:



wherein R¹ and R³ are independently hydrogen or hydrocarbyl or substituted hydrocarbyl having from 1 to about 22 carbon atoms, R² is hydrocarbylene or substituted hydrocarbylene having from 2 to about 18 carbon atoms, R⁴ and R⁵ are independently hydroxyalkyl, polyhydroxyalkyl, or poly(hydroxyalkyl)alkyl, provided, however, that when R¹ and R³ are methyl, R² is other than octylene;

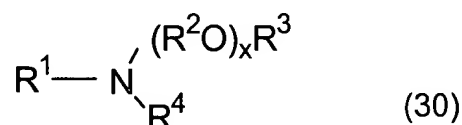
(d) alkoxyated triamines having the formula:



wherein R¹ is hydrocarbyl or substituted hydrocarbyl having from 1 to about 30 carbon atoms; R², R³, R⁴ and R⁵ are independently hydrogen, hydrocarbyl or substituted hydrocarbyl having from 1 to about 30 carbon atoms, or -(R⁸)_s(R⁷-O)_nR⁶; R⁶ is hydrogen, or a linear or branched alkyl group having from 1 to about 4 carbon atoms; R⁷ in each of

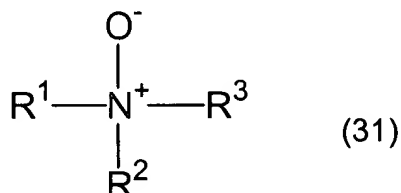
the n (R^7O) groups is independently C_2 - C_4 alkylene; R^8 is hydrocarbylene or substituted hydrocarbylene having from 1 to about 6 carbon atoms; n is an average number from 1 to about 10; s is 0 or 1; and x and y are independently an integer from 1 to about 4; provided, however, that when R^1 is alkyl, R^2 is other than hydrogen, x is 3 or 4, or R^4 is other than $-(R^7O)_nR^6$;

(e) monoalkoxylated amines having the formula:



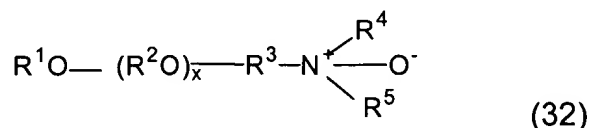
wherein R^1 is a hydrocarbyl or substituted hydrocarbyl group having from 1 to about 30 carbon atoms, R^2 is C_2 - C_4 alkylene, R^3 is hydrogen, or a linear or branched alkyl group having from 1 to about 4 carbon atoms, R^4 is a linear or branched alkynyl, aryl, or aralkyl group having from 1 to about 30 carbon atoms, and x is an average number from 1 to about 60;

(f) amine oxides having the formula:



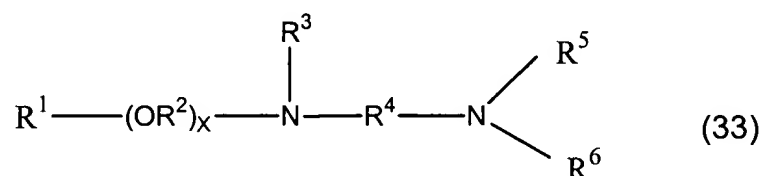
wherein R^1 is hydrocarbyl or substituted hydrocarbyl having from about 8 to about 30 carbon atoms, R^2 and R^3 are independently $-(R^4O)_xR^5$, R^4 in each of the x (R^4O) groups is independently C_2 - C_4 alkylene, R^5 is hydrogen, or a hydrocarbyl or substituted hydrocarbyl having from 1 to about 30 carbon atoms, x is an average number from 1 to about 50.

(g) an alkoxylated amine oxide having the formula:



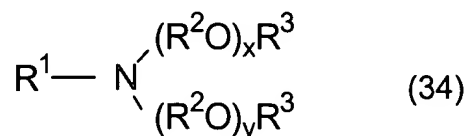
wherein R^1 is hydrogen or hydrocarbyl or substituted hydrocarbyl having from 1 to about 30 carbon atoms; R^2 in each of the x (R^2O) and y (R^2O) groups is independently C_2 - C_4 alkylene; R^3 is a hydrocarbylene or substituted hydrocarbylene having from 2 to about 6 carbon atoms; R^4 and R^5 are each independently hydrogen, hydrocarbyl or substituted hydrocarbyl having from 1 to about 30 carbon atoms, $-(R^6)_n-(R^2O)_yR^7$; R^6 is hydrocarbylene or substituted hydrocarbylene containing from 1 to about 6 carbon atoms, R^7 is hydrogen or a linear or branched alkyl group having 1 to about 4 carbon atoms, n is 0 or 1, and x and y are independently an average number from 1 to about 60;

(h) alkoxyated diamines having the formula:



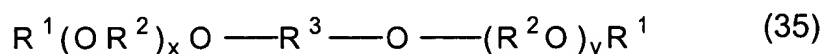
wherein R^1 is hydrocarbyl or substituted hydrocarbyl having from about 8 to about 30 carbon atoms; R^2 in each of the x (R^2O) groups and the y (R^2O) groups is independently C_2 - C_4 alkylene; R^3 , R^5 and R^6 are independently hydrogen, hydrocarbyl or substituted hydrocarbyl having from 1 to about 30 carbon atoms, or $-(R^2O)_yR^7$; R^4 is hydrocarbylene or substituted hydrocarbylene having from 2 to about 6 carbon atoms, $-C(=NR^{11})NR^{12}R^{13}$ -, $-C(=O)NR^{12}R^{13}$ -, $-C(=S)NR^{12}R^{13}$ -, $-C(=NR^{12})$ -, $-C(S)$ -, or $-C(O)$ -; R^7 is hydrogen, or a linear or branched alkyl group having from 1 to about 4 carbon atoms; R^{11} , R^{12} and R^{13} are hydrogen, hydrocarbyl or substituted hydrocarbyl having from 1 to about 30 carbon atoms x is an average number from 1 to about 30; and y is an average number from 1 to about 50, provided, however, that at least one of R^3 , R^5 and R^6 is $-(R^2O)_yR^7$, at least one R^2 is other than ethylene, R^4 is other than unsubstituted propylene, R^1 is other than unsubstituted alkyl, or x is from 2 to about 30;

(i) dialkoxyated amines having the formula:



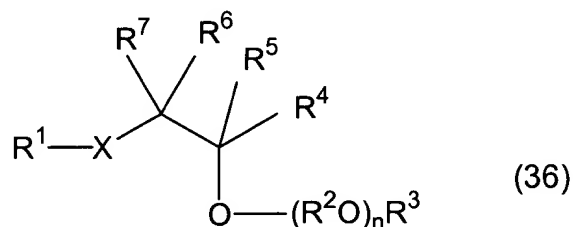
wherein R^1 is a hydrocarbyl or substituted hydrocarbyl having from about 6 to about 30 carbon atoms, or $-R^4SR^5$, R^4 and R^2 in each of the x (R^2O) and the y (R^2O) groups is independently C_2-C_4 alkylene, R^3 is hydrogen, or a linear or branched alkyl group having from 1 to about 4 carbon atoms, R^5 is a linear or branched alkyl group having from about 4 to about 15 carbon atoms, and x and y are independently an average number from 1 to about 40;

(j) dialkoxylated alcohols having the formula:

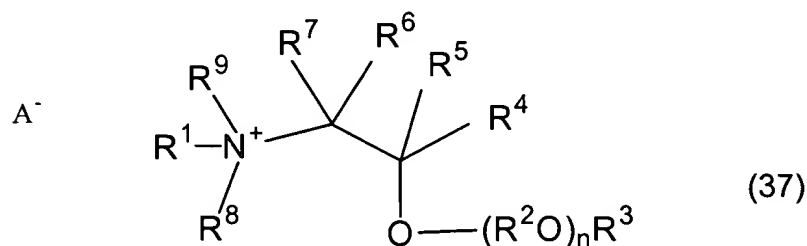


wherein R^1 is independently hydrogen, or a linear or branched alkyl group having from 1 to about 4 carbon atoms, R^2 in each of the x (R^2O) and the y (R^2O) groups is independently C_2-C_4 alkylene, R^3 is hydrocarbylene or substituted hydrocarbylene having from 2 to about 30 carbon atoms, and x and y are independently an average number from 1 to about 60; and

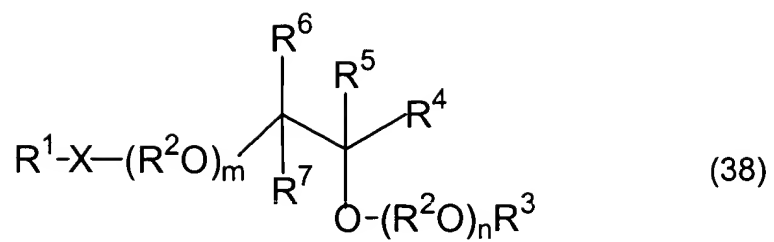
(k) compounds of the formula:



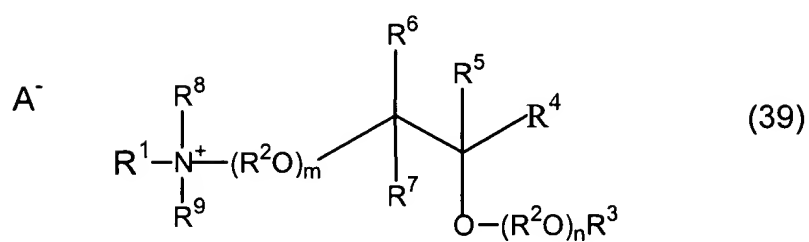
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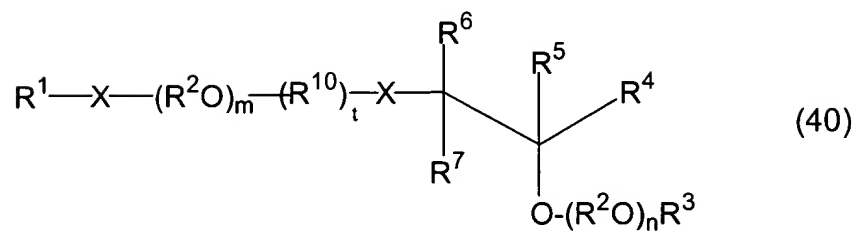
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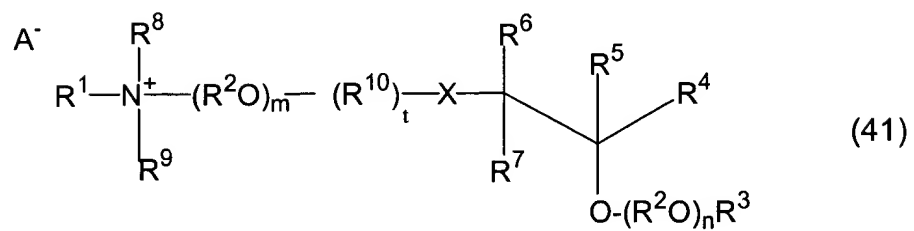
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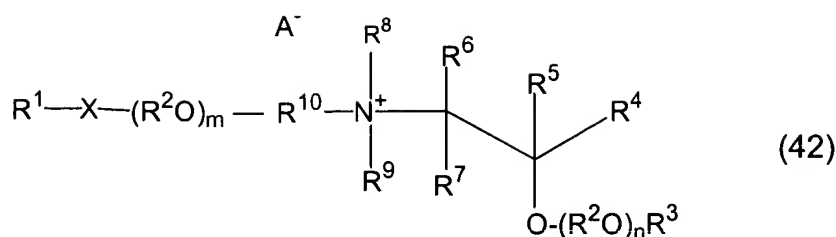
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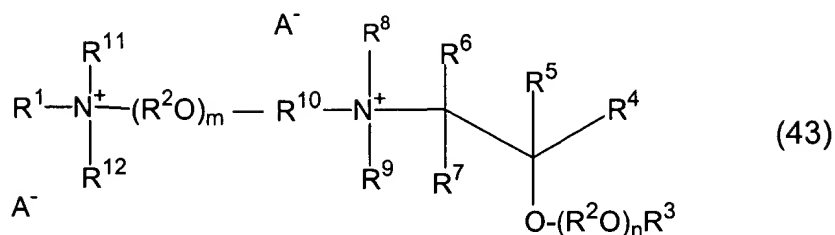
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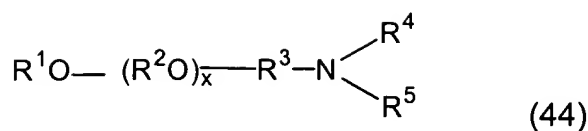


wherein R¹, R⁹, and R¹² are independently hydrocarbyl or substituted hydrocarbyl having from 1 to about 30 carbon atoms, or -(R²O)_pR¹³; R² in each of the m (R²O), n (R²O), p (R²O) and q (R²O) groups is independently C₂-C₄ alkylene; R³, R⁸, R¹¹, R¹³ and R¹⁵ are independently hydrogen, or a hydrocarbyl or substituted hydrocarbyl having from 1 to about 30 carbon atoms; R⁴ is -(CH₂)_yOR¹³ or -(CH₂)_yO(R²O)_qR³; R⁵, R⁶ and R⁷ are independently hydrogen, hydrocarbyl or substituted hydrocarbyl having from 1 to about 30 carbon atoms, or R⁴; R¹⁰ is hydrocarbylene or substituted hydrocarbylene having from 2 to about 30 carbon atoms; R¹⁴ is hydrocarbyl or substituted hydrocarbyl having from 1 to about 30 carbon atoms, or -(CH₂)_zO(R²O)_pR³; m, n, p and q are independently an average number from 1 to about 50; X is -O-, -N(R¹⁴)-, -C(O)-, -C(O)O-, -OC(O)-, -N(R¹⁵)C(O)-, -C(O)N(R¹⁵)-, -S-, -SO-, or -SO₂-; t is 0 or 1; A- is an agriculturally acceptable anion; and y and z are independently an integer from 0 to about 30.

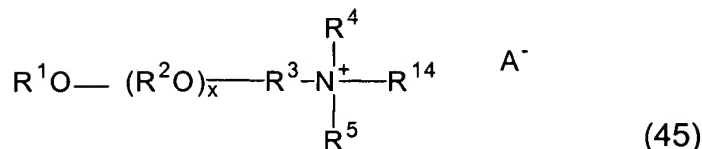
101-102 (canceled)

103. (withdrawn) A formulation of any one of claims 67, 92, 93, 152 or 162 wherein the surfactant is selected from the group consisting of:

(a) aminated alkoxyated alcohol having the formula:

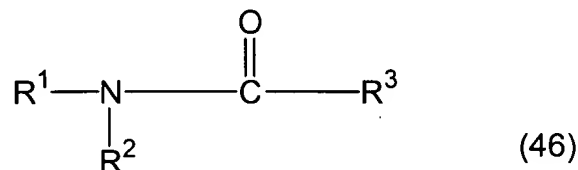


or



wherein R¹ is hydrocarbyl or substituted hydrocarbyl containing at least 7 carbon atoms; R² in each of the x (R²O) and y (R²O) groups is independently C₂-C₄ alkylene; R³ and R⁶ are each independently hydrocarbylene or substituted hydrocarbylene having from 1 to about 6 carbon atoms; R⁴ is hydrogen, hydrocarbyl or substituted hydrocarbyl having from 1 to about 30 carbon atoms, hydroxy substituted hydrocarbyl, -(R⁶)_n-(R²O)_yR⁷, -C(=NR¹¹)NR¹²R¹³, -C(=O)NR¹²R¹³, -C(=S)NR¹²R¹³ or together with R⁵ and the nitrogen atom to which they are attached, form a cyclic or heterocyclic ring; R⁵ is hydrogen, hydrocarbyl or substituted hydrocarbyl having from 1 to about 30 carbon atoms, hydroxy substituted hydrocarbyl, -(R⁶)_n-(R²O)_yR⁷, -C(=NR¹¹)NR¹²R¹³, -C(=O)NR¹²R¹³, -C(=S)NR¹²R¹³, or together with R⁴ and the nitrogen atom to which they are attached, form a cyclic or heterocyclic ring; R⁷ is hydrogen or a linear or branched alkyl group having 1 to about 4 carbon atoms; R¹¹, R¹² and R¹³ are hydrogen, hydrocarbyl or substituted hydrocarbyl, R¹⁴ is hydrogen, hydrocarbyl or substituted hydrocarbyl having from 1 to about 30 carbon atoms, hydroxy substituted hydrocarbyl, -(R⁶)_n-(R²O)_yR⁷, -C(=NR¹¹)NR¹²R¹³, -C(=O)NR¹²R¹³, or -C(=S)NR¹²R¹³, n is 0 or 1, x and y are independently an average number from 1 to about 60, and A⁻ is an agriculturally acceptable anion, provided, however, that when R² and R³ are isopropylene and x is 1, R¹ is other than alkyl or R⁴ is other than -(R²O)_yR⁷;

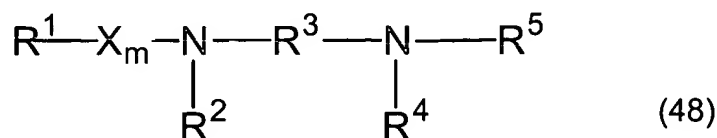
(b) hydroxylated amines having the formula:



wherein R¹ is hydrocarbyl or substituted hydrocarbyl having from about 4 to about 30 carbon atoms, R² is hydrogen or hydrocarbyl or substituted hydrocarbyl having from 1 to

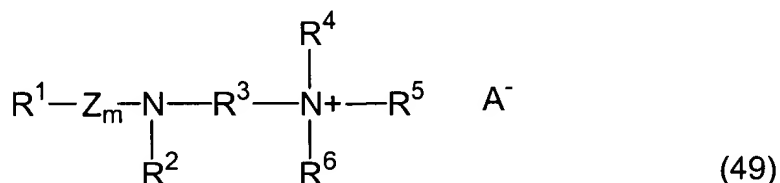
about 30 carbon atoms, and R³ is hydroxyalkyl, polyhydroxyalkyl, or poly(hydroxyalkyl)alkyl;

(c) diamines having the formula:

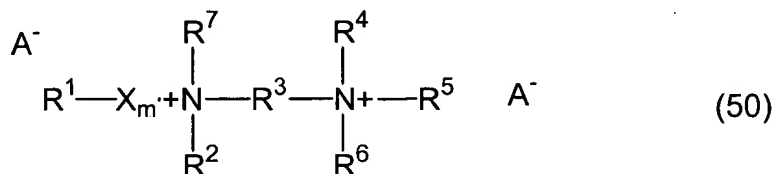


wherein R¹, R² and R⁵ are independently hydrogen or hydrocarbyl or substituted hydrocarbyl having from 1 to about 30 carbon atoms or -R⁸(OR⁹)_nOR¹⁰, R³ is hydrocarbylene or substituted hydrocarbylene having from 2 to about 18 carbon atoms, R⁸ and R⁹ are individually hydrocarbylene or substituted hydrocarbylene having from 2 to about 4 carbon atoms, R⁴ and R¹⁰ are independently hydrogen or hydrocarbyl or substituted hydrocarbyl having from 1 to about 30 carbon atoms, m is 0 or 1, n is an average number from 0 to about 40, X is -C(O)- or -SO₂-, and A⁻ is an agriculturally acceptable anion;

(d) mono- or di-ammonium salts having the formula:



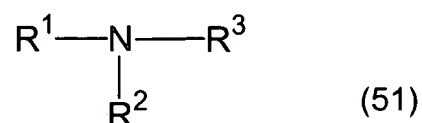
or



wherein R¹, R², R⁴, R⁵ and R⁷ are independently hydrogen or hydrocarbyl or substituted hydrocarbyl having from 1 to about 30 carbon atoms or -R⁸(OR⁹)_nOR¹⁰, R⁶ is hydrocarbyl or substituted hydrocarbyl having from about 1 to about 30 carbon atoms, R³ is hydrocarbylene or substituted hydrocarbylene having from 2 to about 18 carbon atoms, R⁸, R⁹ and R¹¹ are individually hydrocarbylene or substituted hydrocarbylene

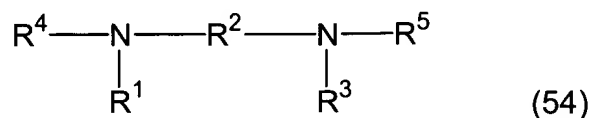
having from 2 to about 4 carbon atoms, R^{10} is hydrogen or hydrocarbyl or substituted hydrocarbyl having from 1 to about 30 carbon atoms, m is 0 or 1, n is an average number from 0 to about 40, X is $-C(O)-$ or $-SO_2-$, Z is $-C(O)-$, and A^- is an agriculturally acceptable anion;

(e) poly(hydroxyalkyl)amines having the formula:



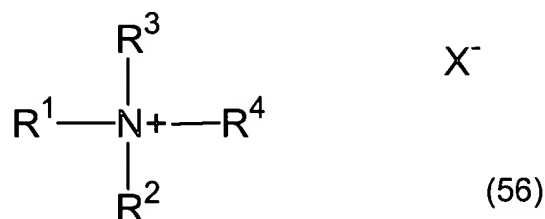
wherein R^1 is hydrocarbyl or substituted hydrocarbyl having from about 4 to about 30 carbon atoms or $-R^4OR^5$, R^2 is hydrogen or hydrocarbyl or substituted hydrocarbyl having from 1 to about 30 carbon atoms, R^3 is hydroxyalkyl, polyhydroxyalkyl, or poly(hydroxyalkyl)alkyl, R^4 is hydrocarbylene or substituted hydrocarbylene having from 2 to about 18 carbon atoms, and R^5 is hydrogen or hydrocarbyl or substituted hydrocarbyl having from about 1 to about 30 carbon atoms.

(f) di-poly(hydroxyalkyl)amine having the formula:



wherein R^1 and R^3 are independently hydrogen or hydrocarbyl or substituted hydrocarbyl having from 1 to about 22 carbon atoms, R^2 is hydrocarbylene or substituted hydrocarbylene having from 2 to about 18 carbon atoms, and R^4 and R^5 are independently hydroxyalkyl, polyhydroxyalkyl, or poly(hydroxyalkyl)alkyl;

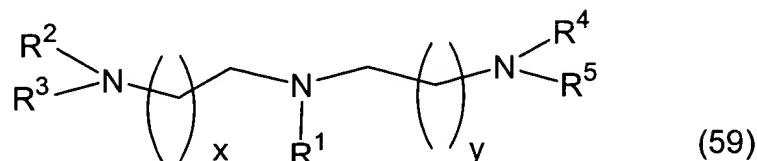
(g) quaternary poly(hydroxyalkyl)amine salts having the formula:



wherein R^1 is hydrocarbyl or substituted hydrocarbyl having from about 4 to about 30 carbon atoms, R^2 and R^3 are independently hydrogen or hydrocarbyl or substituted

hydrocarbyl having from 1 to about 30 carbon atoms, and R^4 is hydroxyalkyl, polyhydroxyalkyl, or poly(hydroxyalkyl)alkyl;

(h) triamines having the formula:

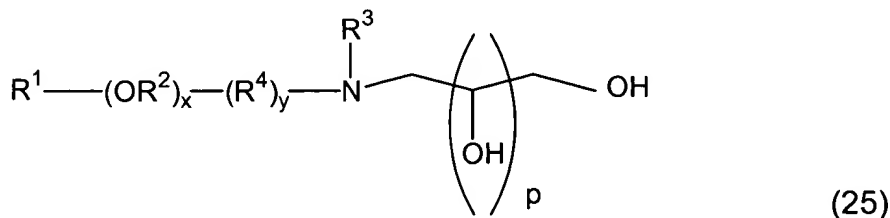


wherein R^1 is hydrocarbyl or substituted hydrocarbyl having from 1 to about 30 carbon atoms; R^2 , R^3 , R^4 and R^5 are independently hydrogen, hydrocarbyl or substituted hydrocarbyl having from 1 to about 30 carbon atoms, or $-(R^8)_s(R^7O)_nR^6$; R^6 is hydrogen or a linear or branched alkyl group having from 1 to about 4 carbon atoms, R^7 in each of the n (R^7O) groups is independently C_2 - C_4 alkylene; R^8 is hydrocarbylene or substituted hydrocarbylene having from 1 to about 6 carbon atoms, n is an average number from 1 to about 10, s is 0 or 1, and x and y are independently an integer from 1 to about 4;

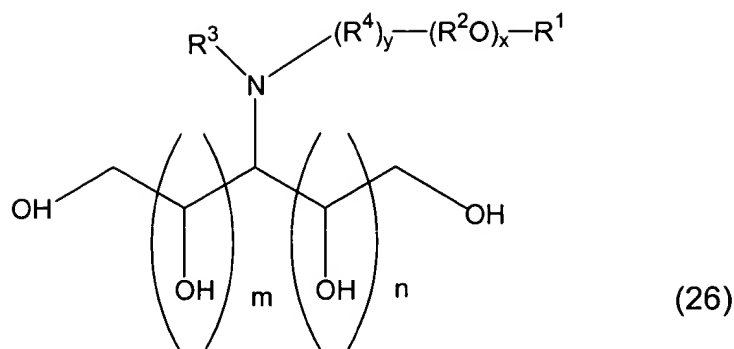
and mixtures thereof, wherein the pesticide is other than a bacteriocide if the composition includes a surfactant of group (a) or (d).

104-144 (canceled)

145. (withdrawn) A surfactant compound of claim 100 wherein said surfactant of formula (b) is an alkoxyated poly(hydroxyalkyl)amines having the formula:

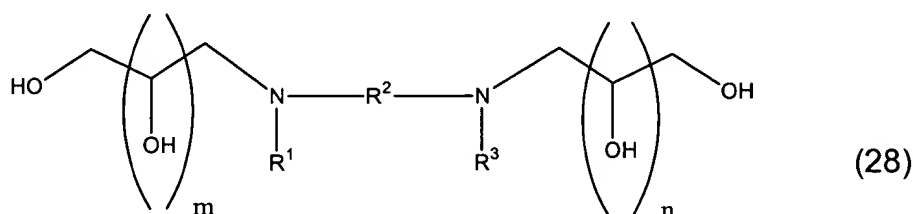


or



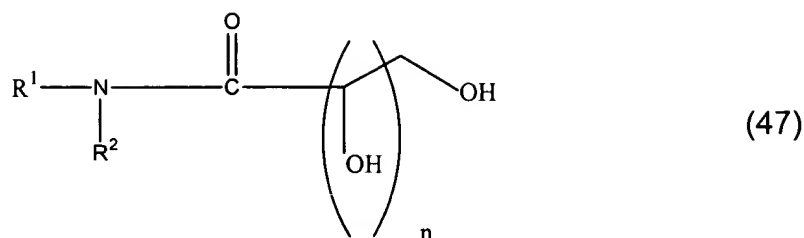
wherein R^1 and R^3 are independently hydrogen, hydrocarbyl or substituted hydrocarbyl having from 1 to about 30 carbon atoms, R^2 in each of the x (R^2O) groups is independently C_2 - C_4 alkylene; R^4 is hydrocarbylene or substituted hydrocarbylene having from 1 to about 30 carbon atoms, m and n are independently integers from 0 to about 7, the sum of m and n is not greater than about 7, p is an integer from 1 to about 8, x is an average number from 0 to about 30, and y is 0 or 1.

146. (withdrawn) A surfactant compound of claim 100 wherein said surfactant of formula (c) is a di-poly(hydroxyalkyl)amine having the formula:



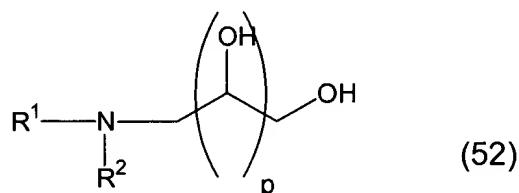
wherein R^1 and R^3 are independently hydrogen or hydrocarbyl or substituted hydrocarbyl having from 1 to about 22 carbon atoms, R^2 is hydrocarbylene or substituted hydrocarbylene having from 2 to about 18 carbon atoms, and m and n are independently integers from 1 to about 8, provided, however, that when R^1 and R^3 are methyl, R^2 is other than octylene.

147. (withdrawn) A surfactant compound of claim 103 wherein said surfactant of formula (b) is a hydroxylated amine having the formula:

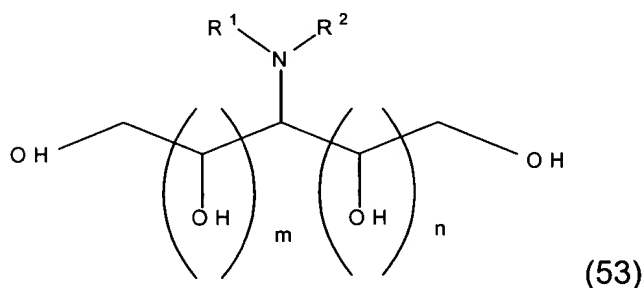


wherein R¹ is hydrocarbyl or substituted hydrocarbyl having from about 4 to about 30 carbon atoms, R² is hydrogen or hydrocarbyl or substituted hydrocarbyl having from 1 to about 30 carbon atoms, and n is 1 to about 8.

148. (withdrawn) A surfactant compound of claim 103 wherein said surfactant of formula (e) is a poly(hydroxyalkyl)amine having the formula:



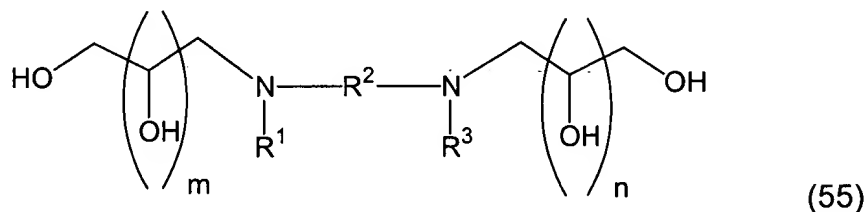
or



wherein R¹ is hydrocarbyl or substituted hydrocarbyl having from about 4 to about 30 carbon atoms or -R³OR⁴; R² is hydrogen or hydrocarbyl or substituted hydrocarbyl having from 1 to about 30 carbon atoms, R³ is hydrocarbylene or substituted hydrocarbylene having from 2 to about 18 carbon atoms, R⁴ is hydrogen or hydrocarbyl or substituted hydrocarbyl having from about 1 to about 30 carbon atoms, m and n are

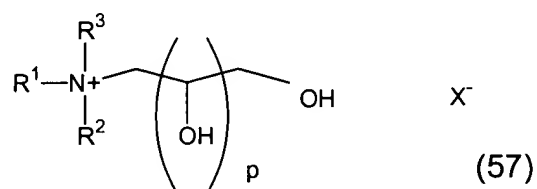
independently integers from 0 to about 7, the sum of m and n is not greater than about 7, and p is an integer from 1 to about 8.

149. (withdrawn) A surfactant compound of claim 103 wherein said surfactant of formula (f) is a di-poly(hydroxyalkyl)amine having the formula:

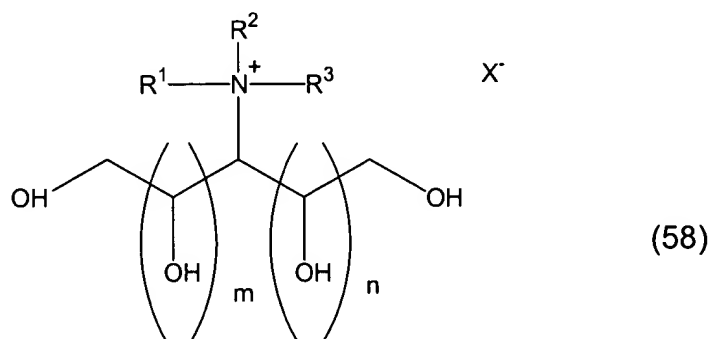


wherein R¹ and R³ are independently hydrogen or hydrocarbyl or substituted hydrocarbyl having from 1 to about 22 carbon atoms, R² is hydrocarbylene or substituted hydrocarbylene having from 2 to about 18 carbon atoms, and m and n are independently integers from 1 to about 8.

150. (withdrawn) A surfactant compound of claim 103 wherein said surfactant of formula (g) is a quaternary poly(hydroxyalkyl)amine salt having the formula:



or



wherein R¹ is hydrocarbyl or substituted hydrocarbyl having from about 4 to about 30 carbon atoms, R² and R³ are independently hydrogen or hydrocarbyl or substituted hydrocarbyl having from 1 to about 30 carbon atoms, m and n are independently integers from 0 to about 7, the sum of m and n is not greater than about 7, and p is an integer from 1 to about 8.

151. (canceled)

152. (currently amended) A formulation useful in retarding the growth of vegetation comprising an aqueous mixture containing a surfactant, glyphosate, predominantly in the form of the potassium salt ~~or a salt or ester~~ thereof, and a dicarboxylic acid, the nature of said surfactant and the composition of said formulation being such that, upon application of the formulation to a plant, anisotropic aggregates comprising said surfactant are formed on the foliage of said plant, and wherein the growth of the plant is controlled to a greater extent than in a plant treated with a reference application mixture devoid of the dicarboxylic acid but otherwise having the same composition as said formulation.

153. (previously presented) A formulation as set forth in claim 152 wherein the nature of said surfactant and the composition of said formulation are such that, upon application of the formulation to a plant, liquid crystals comprising said surfactant are formed in the foliage of said plant

154. (previously presented) A formulation as set forth in claim 152 wherein the glyphosate concentration is from about 400 g a.e./L to about 600 g a.e./L.

155. (previously presented) A formulation of claim 152 wherein the formulation has a cloud point of at least about 50°C and a crystallization point of not higher than about 0°C.

156. (previously presented) A formulation of claim 155 wherein the formulation has a cloud point of at least about 60°C and a crystallization point of not higher than about -10°C.

157. (currently amended) A formulation of claim 152 wherein the weight ratio of the surfactant to the dicarboxylic acid is from about 5:1 to about 50:1 ~~formulation comprises a salt of glyphosate selected from the group consisting of potassium glyphosate, monoammonium glyphosate, diammonium glyphosate, sodium glyphosate, monoethanolamine glyphosate, n-propylamine glyphosate, ethylamine glyphosate, ethylenediamine glyphosate, hexamethylenediamine glyphosate, trimethylsulfonium glyphosate and mixtures thereof.~~

158. (previously presented) A formulation of claim 152 wherein the formulation has a density of at least about 1.210 grams/liter.

159. (previously presented) A formulation of claim 152 wherein the formulation has a viscosity of less than about 1000 c.p. at 0°C at 45/s shear rate.

160. (previously presented) A formulation of claim 159 wherein the formulation has a viscosity of less than about 250 c.p. at 0°C at 45/s shear rate.

161. (previously presented) A formulation of claim 152 wherein the surfactant comprised by the formulation is not substantially antagonistic to the herbicidal activity of the glyphosate.

162. (currently amended) A formulation useful in retarding the growth of vegetation comprising an aqueous mixture containing a surfactant, glyphosate or a salt or ester thereof, and a dicarboxylic acid, said surfactant and said dicarboxylic acid being present is a weight ratio of between about 5:1 ~~4:4~~ and about 50:1, the nature of said surfactant and the composition of said formulation being such that, upon application of the formulation to a plant, anisotropic aggregates comprising said surfactant are formed on the foliage of said plant.

163. (previously presented) A formulation as set forth in claim 162 wherein the nature of said surfactant and the composition of said formulation are such that, upon application of the formulation to a plant, liquid crystals comprising said surfactant are formed in the foliage of said plant

164. (previously presented) A formulation as set forth in claim 162 wherein the glyphosate concentration is from about 400 g a.e./L to about 600 g a.e./L.

165. (previously presented) A formulation of claim 162 wherein the formulation has a cloud point of at least about 50°C and a crystallization point of not higher than about 0°C.

166. (previously presented) A formulation of claim 165 wherein the formulation has a cloud point of at least about 60°C and a crystallization point of not higher than about -10°C.

167. (previously presented) A formulation of claim 162 wherein the formulation comprises a salt of glyphosate selected from the group consisting of potassium glyphosate, monoammonium glyphosate, diammonium glyphosate, sodium glyphosate, monoethanolamine glyphosate, n-propylamine glyphosate, ethylamine glyphosate, ethylenediamine glyphosate, hexamethylenediamine glyphosate, trimethylsulfonium glyphosate and mixtures thereof.

168. (previously presented) A formulation of claim 162 wherein the formulation has a density of at least about 1.210 grams/liter.

169. (previously presented) A formulation of claim 162 wherein the formulation has a viscosity of less than about 1000 c.p. at 0°C at 45/s shear rate.

170. (previously presented) A formulation of claim 169 wherein the formulation has a viscosity of less than about 250 c.p. at 0°C at 45/s shear rate.

171. (previously presented) A formulation of claim 162 wherein the surfactant comprised by the formulation is not substantially antagonistic to the herbicidal activity of the glyphosate.

172-178 (canceled)